

Case 398 : Narrative

Case Vehicle (A): 2000 Ford	Vehicle (B): 2002 Ford
Type: Taurus SE, 4-door sedan	Type: Mustang GT, 2-door coupe
Driver: 19-year-old male	Driver: 44-year-old male
CDC: 12-FREW-3, 00-TDDO-3	CDC: 12-FREE-6

SITUATION

[1](#) It was daylight and the five-lane east-west asphalt road with a posted speed limit of 45 mph (72 kph) was dry and in good condition. [2](#) Case vehicle (A) was traveling west at an unknown speed in the center turn lane, [3](#) and vehicle (B) was traveling east at a driver-estimated speed of 45 mph (72 kph) in the left eastbound lane. As the two vehicles approached each other at a T-type intersection with a divided 2-lane road to the south, the driver of case vehicle (A) began a left turn to travel south on the intersecting road and entered the left eastbound lane in front of vehicle (B). The driver of vehicle (B) applied the brakes but did not make any other evasive maneuvers and the right front of case vehicle (A) struck the right front of vehicle (B). Case vehicle (A) rotated clockwise while moving to the south, [4](#) struck a curb with its left-rear wheel, and rolled two quarter turns with the driver side leading, before [5](#) coming to rest on its roof at the intersection of the two roads facing west. [6](#) Vehicle (B) rotated clockwise approximately 170° and came to rest straddling the eastbound lanes facing southwest. Both vehicles were towed due to damage.

The police report indicates B-level injuries for the drivers of case vehicle (A) and vehicle (B). Both drivers were transported by ambulance to a hospital and both were treated and released.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[7](#) Damage to the right front of case vehicle (A) was severe. [8](#) The direct damage began at the right-front bumper corner and extended 46-cm to the left of the right headlight assembly, resulting in 35% vehicle overlap (VOL). [9](#) The maximum rearward crush was 50 cm and occurred at the right-front bumper corner. [10](#) The maximum downward crush from the rollover was 22 cm and occurred at the right-front corner of the roof.

[11](#) Damage to the right front of vehicle (B) was severe. [12](#) The direct damage began at the right-front bumper corner and extended 30-cm to the left of the right headlight assembly, resulting in 33% VOL. [13](#) The maximum rearward crush was 63 cm and occurred at the right-front bumper corner. [14](#) The right wheelbase was reduced 49 cm [15](#) but the left wheelbase was increased 5 cm.

Using the WinSMASH crash-reconstruction program and [16](#) [17](#) [18](#) crush profiles measured for the front of case vehicle (A) and [19](#) [20](#) [21](#) vehicle (B) at the level of the bumpers, the following impact severities were estimated for the offset-frontal impacts:

Calculated Velocity Change - kph (mph)			

Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	32 (20)	-31 (-20)	-6 (-3)
Vehicle (B)	delta V	34 (21)	-33 (-21)	6 (4)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[22](#) In the front, the right portions of the bumper and the hood were crushed to the rear. The hood was dented, the hood latch was damaged and jammed closed, [24](#) and the right hood hinge was bent, but [23](#) the left hood hinge was not damaged. [25](#) The rear edge of the hood was slightly elevated and [26](#) it contacted and cracked the lower-right corner of the windshield, [27](#) which was also cracked throughout due to downward crush of the windshield header during the rollover.

On the right side, [28](#) [29](#) the fender, the right-front wheel, and the upper and lower sections of the right A-pillar were crushed to the rear, causing the right-front door to be jammed closed and restricting rotation of the right-front wheel. Also, the right wheelbase was reduced by 17 cm. [30](#) The right roof siderail was crushed down and the upper section of the right D-pillar was buckled from contact with the ground during the rollover. [31](#) The right-rear door was closed and operational and the right-side glazing was intact, although the window of the right-front door was rolled down. There was no other damage to the right side of the vehicle.

[32](#) There was no damage to the rear of the vehicle.

[33](#) On the left side, damage from the rollover dented the rear portion of the fender and [34](#) [35](#) crushed down the upper section of the left A-pillar and the left roof siderail. The upper sections of the left B- and C-pillars, both left-side doors, [36](#) and the rear door glazing were scratched, and [37](#) the upper section of the left C-pillar was buckled. [38](#) The left-rear wheel was out of alignment, the wheel rim was scuffed, and the bead of the left-rear wheel rim was full of grass but the tire was not flat. [39](#) Both left-side doors were closed and operational and all door glazing was intact, but the window of the driver door was rolled down, and the left wheelbase was increased by 6 cm.

[40](#) On the roof of the vehicle, the maximum downward crush from the rollover was 22 cm and occurred at the right-front corner. The front two-thirds of the roof to the right of the left roof siderail was also crushed down.

Interior

This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and [41](#) [42](#) [43](#) [44](#) both deployed during the offset-frontal impact. [45](#) [46](#) [47](#) [48](#) In the driver area, there was no damage to the steering-wheel airbag or to the airbag module flaps/covers. [49](#) [50](#) There was no damage to the steering-wheel rim or spokes and [51](#) there was no deflection of the steering column. [52](#) The windshield header, the roof headliner, and the roof were buckled, and the roof headliner was stained with blood. [53](#) [54](#) [55](#) [56](#) There was no other damage in the driver area.

[57](#) In the center-front area, the windshield header and roof were crushed down but there was no other damage.

In the right-front seating area, [58](#) [59](#) there was no damage to the dash-mounted airbag or to the airbag flaps/cover. [60](#) [61](#) The windshield header, the roof, the upper section of the right A-pillar, and the roof siderail were crushed down. [62](#) [63](#) [64](#) The glove-box was knocked out due to rearward displacement of the heater core and could not be reinserted. [65](#) There was no other damage in the right-front seating area.

[66](#) [67](#) There was no damage in the rear seat area.

The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
Driver	roof 68	17	down
	windshield header	15	down
Right front	roof 69	22	down
	windshield header 70	20	down
	fire wall (heater core) 61	14	to rear
	windshield header	4	to rear

OCCUPANT KINEMATICS AND INJURIES

[53](#) The 183-cm, 102-kg (6-ft 0-in, 225-lb) 19-year-old male driver was using the three-point belt, the buckle-side pretensioner fired, and [71](#) the steering-wheel airbag deployed. [72](#) Belt webbing load marks on the D-ring [73](#) and plastic transferred onto the belt webbing [74](#) [75](#) are evidence of belt use at the time of the crash.

During the frontal impact, the driver moved forward and slightly to right relative to the vehicle interior, into the belt restraints and airbag. During the rollover he probably moved to the left and up relative to the vehicle interior. He sustained a loss of consciousness for an unspecified length of time with a Glasgow Coma Score of 14 on admission to the hospital, possibly from head contact with the roof, [76](#) [77](#) [78](#) as indicated by blood on the roof liner. He sustained a fracture to the nose from an unknown source.

The following table and attached drawing [79](#) summarize the injuries for the driver of case vehicle (A).

Occupant: Driver		Age: 19 years		Gender: Male	
Restraints: 3-point belt (pretensioner fired); steering-wheel airbag		Stature: 183 cm (6 ft)		Mass: 102 kg (225 lb)	
Injury Description	A.I.S.	Injury Source			
—	—	Definite	Probable	Possible	
Loss of consciousness for an unspecified length of time with a Glasgow Coma Score of 14 on admission	2	—	—	Roof	
Fracture, nose	1	Unknown	—	—	

Maximum A.I.S. Level	2	—	—	—
Injury Severity Score	5	—	—	—

CASE NO.: 398

CASE VEHICLE: 2000 Ford

TYPE: Taurus SE, 4-door sedan

OCCUPANT: Driver: 19-year-old male

STATURE: 183 cm (6 ft, 0 in) MASS: 102 kg (225 lb)

RESTRAINTS: 3-point belt, pretensioner fired;
steering-wheel airbag

SEVERITY: MAIS - 2 : ISS - 5

Loss of consciousness for an
unspecified length of time,
GCS (Glasgow Coma Score) was
14 on admission (2)



Fracture, nose (1)



Case No.: 398

Case Veh. (A): 2000 Ford

Type: Taurus SE, 4-door sedan

Driver: 19-year-old male

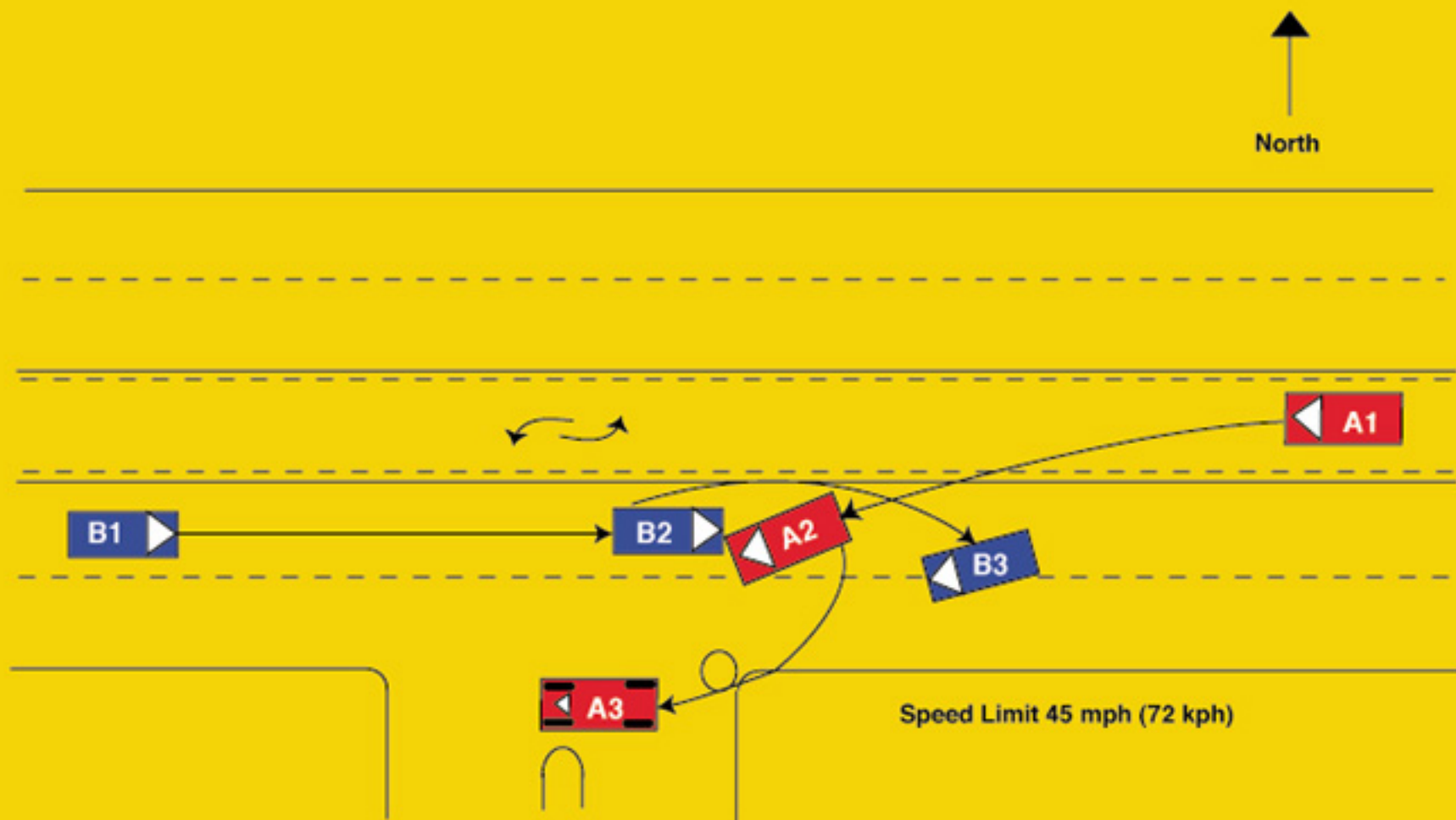
Veh. (B): 2002 Ford Mustang GT, 2-door coupe

Light Conditions: Daylight

Weather: Clear

Road Surface: Dry

Road Construction: Asphalt



Vehicle Report

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General Conditions

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Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	1	Urban	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	4	4 lanes or more	more
V209 — Intersecting Road Total Lanes	5	Divided, 4 lanes or more	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	4	71-79 km/h .. 45 mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	9	Unknown	more

V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	1	Daylight	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	1	Yes	more
V226 — Case Vehicle Rollover	2	Yes, Subsequent Event	more
V227 — Case Vehicle Ran Off Roadway	0	No	more
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	more
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	more
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	more
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle

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Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	1FAFP42X02F1	—	—
V302 — Other Vehicle Manufacturer/Body Code	12127	—	—
V303 — Other Vehicle Manufacturer	121	Ford	more
V304 — Other Vehicle Body Code	27	Compact 100-104.9 in. wb.	more
V305 — Other Vehicle Make/Model	0244	Mustang, Mustang II	more
V306 — Other Vehicle Model Year	2002	—	—
V307 — Other Vehicle Mass	001490 kg	—	—
V308 — Other Vehicle Number	1	Vehicle #1	more
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	072 kph	—	—

V311 — Highest Police Injury Severity	2	B - Non-Incapacitating Injury	more
V312 — Other Vehicle Type	27	Compact 100-104.9 in. wb.	more
V313 — Other Vehicle Wheelbase (cm)	257 cm	—	—
V314 — Average Track Width	153 cm	—	—
V315 — Overall Length	465 cm	—	—
V316 — Overall Width (OAW)	186 cm	—	—
V317 — Front Overhang (FOH)	104 cm	—	—
V318 — Rear Overhang (ROH)	105 cm	—	—
V319 — Undeformed End Width (UEW)	142 cm	—	—
V320 — Engine Displacement	4.6 l	—	—
V321 — Engine: Number of Cylinders	08	—	—
V322 — Direct Damage Length (DDL)	039 cm	—	—
V323 — Front-End Overlap % (FEO)	27	—	—
V324 — Vehicle Overlap % (VOL)	33	—	—

Case Vehicle General



[Click for case vehicle figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1FAFP53U8YG2	—	—
V402 — Manufacturer/Body Code	12128	—	—
V403 — Vehicle Manufacturer	121	Ford	more
V404 — Vehicle Body Code	28	—	—
V405 — Make/Model Code	0275	Taurus	more
V406 — Model Year	2000	—	—
V407 — Vehicle Mass	001522 kg	—	—
V408 — Odometer Reading	034433 miles	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	999	Unknown	more
V411 — Body Type	14	4-door sedan	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	2	Unitized	more
V414 — Transmission Type	1	Automatic	more
	3		

V415 — Transmission Lever Location		Column	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	2	Disc - front wheels	more
V419 — Brake Anti-lock Device	9	Unknown	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	2	Front wheel	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System Type	3	Airbag	more
V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	276 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	157 cm	—	—
V429 — Overall Length	502 cm	—	—
V430 — Overall Width (OAW)	186 cm	—	—
V431 — Front Overhang	106 cm	—	—
V432 — Rear Overhang	121 cm	—	—
V433 — Undeformed End Width (UEW)	148 cm	—	—
V434 — Engine Displacement	3.0 l	—	—
V435 — Engine: Number of Cylinders	06	—	—
V436 — Direct Damage Length (DDL)	046 cm	—	—
V437 — Front End Overlap % (FEO)	31	—	—
V438 — Vehicle Overlap % (VOL)	35	—	—

Case Vehicle Damage Description

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Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	050 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	more

V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	022 cm	—	—
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	11	FRONT of case veh - FRONT of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	27	Compact 100-104.9 in. wb.	more
V511 — Event 2 Impact Location	2	Shoulder/Median/Gore	more
V512 — Event 2 Impact Configuration	61	Case vehicle rollover - less than 360 degrees	more
V513 — Event 2 Object/Vehicle Contacted	80	Ground (rollover only)	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more
V524 — Event 6 Impact Configuration	88	No 6th event	more
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	more
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	more
V531 — Primary CDC Case Vehicle -	1	Investigator	more

Estimated By			
V532 — Primary CDC Case Vehicle -crush	050	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	18	R - Right (Front or Rear)	more
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	more
V538 — Primary CDC Case Vehicle Extent #1	03	Extent 3	more
V539 — Primary CDC Case Vehicle -CDC #1	12FREW3	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle - crush	063	—	—
V550 — Primary CDC Contacted Vehicle - clock #1	12	12 o'clock	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	06	F - Front	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	18	R - Right (Front or Rear)	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	05	E - Everything below belt line	more
	05	E - Corner (extends	

V554 — Primary CDC Contacted Vehicle letter 4 #1		from corner to = or < 16 in [410mm]) or	more
V555 — Primary CDC Contacted Vehicle Extent #1	06	Extent 6	more
V556 — Primary CDC Contacted Vehicle - CDC #1	12FREE6	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle - CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	2	Event 1	more
V565 — Secondary CDC Case Vehicle - Impact Speed	999	Unknown	more
V566 — Secondary CDC Case Vehicle - Estimated By	1	—	—
V567 — Secondary CDC Case Vehicle - crush	022	—	—
V568 — Secondary CDC Case Vehicle - clock #1	00	Nonhorizontal force	more
V569 — Secondary CDC Case Vehicle letter 1 #1	20	T - Top	more
V570 — Secondary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	more
V571 — Secondary CDC Case Vehicle letter 3 #1	04	D - Distributed	more
V572 — Secondary CDC Case Vehicle letter 4 #1	15	O - Rollover (includes rolling onto side)	more
V573 — Secondary CDC Case Vehicle Extent #1	03	Extent 3	more
V574 — Secondary CDC Case Vehicle - CDC #1	00TDD03	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter	00	Missing Data/Not	more

2 #2		applicable	
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle - CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

Crash Severity

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Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	032 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-031 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	-006 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0078 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstruction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	034 kph	—	—
	-033 kph		

V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V		—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	0006 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0083 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	2	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	999	Unknown	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	9999	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V	9999	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	9999	—	—
V617 —	04		

Secondary Case Vehicle Reconstruction Note		Rollover	more
V618 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	035 kph	—	—
V625 — Primary Case Vehicle	-034 kph		

Reconstructed Longitudinal EBS		—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	-006 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0078 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V630 — Primary Contacted Vehicle Reconstruction Total EBS	031 kph	—	—
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	-031 kph	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	0005 kph	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	0083 kJ	—	—

V634 — Case Vehicle Secondary Impact Number	2	—	—
V635 — Secondary Case Vehicle Reconstruction Total EBS	999	Unknown	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	9999	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	9999	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	9999	—	—
V639 — Secondary Case Vehicle Reconstruction Note	04	Rollover	more
V640 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal	8888	—	—

EBS			
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	046 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	050 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	125 cm	—	—
V650 — Case Vehicle Impact 1 C1	003 cm	—	—
V651 — Case Vehicle Impact 1 C2	013 cm	—	—
V652 — Case Vehicle Impact 1 C3	027 cm	—	—
V653 — Case Vehicle Impact 1 C4	036 cm	—	—

V654 — Case Vehicle Impact 1 C5	040 cm	—	—
V655 — Case Vehicle Impact 1 C6	050 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0051 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	5	Other	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	more
V660 — Case Vehicle Impact 2 Max Crush	022 cm	—	—
V661 — Case Vehicle Impact 2 Field-L	999	Unknown	more
V662 — Case Vehicle Impact 2 C1	999	Unknown	more
V663 — Case Vehicle Impact 2 C2	999	Unknown	more
V664 — Case Vehicle Impact 2 C3	999	Unknown	more
V665 — Case Vehicle Impact 2 C4	999	Unknown	more
V666 — Case Vehicle Impact 2 C5	999	Unknown	more

V667 — Case Vehicle Impact 2 C6	999	Unknown	more
V668 — Case Vehicle Impact 2 +/- D	0999 cm	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	1	Bumper	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	039 cm	—	—
V672 — Other Vehicle Impact 1 Max Crush	063 cm	—	—
V673 — Other Vehicle Impact 1 Field-L	113 cm	—	—
V674 — Other Vehicle Impact 1 C1	000 cm	No Crush	more
V675 — Other Vehicle Impact 1 C2	015 cm	—	—
V676 — Other Vehicle Impact 1 C3	027 cm	—	—
V677 — Other Vehicle Impact 1 C4	036 cm	—	—
V678 — Other Vehicle Impact 1 C5	045 cm	—	—
V679 — Other Vehicle Impact 1 C6	063 cm	—	—

V680 — Other Vehicle Impact 1 +/- D	0051 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	more
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	more
V686 — Other Vehicle Impact 2 C1	998	Not applicable	more
V687 — Other Vehicle Impact 2 C2	998	Not applicable	more
V688 — Other Vehicle Impact 2 C3	998	Not applicable	more
V689 — Other Vehicle Impact 2 C4	998	Not applicable	more
V690 — Other Vehicle Impact 2 C5	998	Not applicable	more
V691 — Other Vehicle Impact 2 C6	998	Not applicable	more
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

Case Vehicle Tires & Rims

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Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	0	No	more
V702 — Right Front Wheel Damaged	1	Yes	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	1	Yes	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	P21560R16	—	—
V718 — Right Front Tire Size	P21560R16	—	—
V719 — Right Rear Tire Size	P21560R16	—	—
V720 — Left Rear Tire Size	P21560R16	—	—

Case Vehicle Fuel, Tank, Fire

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Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	more
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	133	—	—
V804 — Main Tank Material	2	Aluminum	more


V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	more
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more
V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Case Vehicle Exterior

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Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	more
V1102 — Hood Latch Damaged	1	Yes	more
V1103 — Hood Latch Jammed	1	Yes	more
V1104 — Left Hood Hinge Damaged	0	No	more
V1105 — Left Hood Hinge Separated	8	Not applicable	more
V1106 — Right Hood Hinge Damaged	1	Yes	more
V1107 — Right Hood Hinge Separated	0	No	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	1	Yes	more
V1110 — Edge Contacted Windshield	1	Yes	more
V1111 — Edge Penetrated Windshield	0	No	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more
V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	more
V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	more
V1121 — Lower Left A-pillar	0	No	more

Separation			
V1122 — Upper Left B-pillar Separation	4	No separation, but damaged	more
V1123 — Lower Left B-pillar Separation	0	No	more
V1124 — Upper Left C-pillar Separation	4	No separation, but damaged	more
V1125 — Lower Left C-pillar Separation	0	No	more
V1126 — Upper Left D-pillar Separation	4	No separation, but damaged	more
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	more
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	0	Door did not open	more
V1130 — Left Front Door Jammed Closed	0	No	more
V1131 — Left Rear Door Jammed Closed	0	No	more
V1132 — Rear Door Type	0	No door (includes pickups)	more
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	more
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	more
V1135 — Luggage Partition Damagd	0	No	more
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	0	No hitch	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	more
V1140 — Upper Right A-pillar Separation	4	No separation, but damaged	more
V1141 — Lower Right A-pillar Separation	4	No separation, but damaged	more
V1142 — Upper Right B-pillar Separation	0	No	more
V1143 — Lower Right B-pillar Separation	0	No	more
V1144 — Upper Right C-pillar Separation	0	No	more
V1145 — Lower Right C-pillar Separation	0	No	more

V1146 — Upper Right D-pillar Separation	4	No separation, but damaged	more
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	more
V1148 — Right Front Door Opening Cause	00	Door did not open	more
V1149 — Right Rear Door Opening Cause	00	Door did not open	more
V1150 — Right Front Door Jammed Closed	1	Yes	more
V1151 — Right Rear Door Jammed Closed	0	No	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	more
V1153 — Windshield Cracked	 Click for windshield damage figure	Yes	more
V1154 — Windshield Broken	0	No	more
V1155 — Windshield Cracked or Broken by Occupant	0	No	more
V1156 — Bond Separation Extent	0	None	more
V1157 — Windshield Code	 Click for windshield code figure	—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	more

Case Vehicle Steering Column/Rim

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Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	0	None	more
V1202 — Number of Steering Wheel Spokes	4	4 spokes	more
V1203 — Steering Wheel Spoke Damage	0	None	more
	1	Yes, equipped (position	

V1204 — Column Tilt Feature		unknown)	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	0	No apparent rotation	more
V1213 — Column Lateral Rotation	0	No apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

Case Vehicle Intrusion



Click for intrusion figures

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Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	more
V1302 — Was Intrusion Catastrophic	0	No	more
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	more
V1305 — Intrusion 01 Intruding Object	15	Roof or convertible top	more
V1306 — Intrusion 01 Assoc Event Number	2	Event #2	more
V1307 — Intrusion 01 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	17 cm	—	—
V1310 — Intrusion 01 Occupant Number	01	Occupant number 1, contact	more

V1311 — Intrusion 01 Injury Number	01	Injury #1	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1314 — Intrusion Number 02	02	Intrusion #2	more
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	more
V1316 — Intrusion 02 Intruding Object	07	Windshield header	more
V1317 — Intrusion 02 Assoc Event Number	2	Event #2	more
V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	15 cm	—	—
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	13	First row, Right seat	more
V1327 — Intrusion 03 Intruding Object	15	Roof or convertible top	more
V1328 — Intrusion 03 Assoc Event Number	2	Event #2	more
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	22 cm	—	—
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more
V1335 — Intrusion 03 Injury Number	00	No injury or no intrusion	more

V1336 — Intrusion Number 04	04	Intrusion #4	more
V1337 — Intrusion 04 Occupant Space Number	13	First row, Right seat	more
V1338 — Intrusion 04 Intruding Object	07	Windshield header	more
V1339 — Intrusion 04 Assoc Event Number	2	Event #2	more
V1340 — Intrusion 04 Max Intrusion X-axis	04 cm	—	—
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1342 — Intrusion 04 Max Intrusion Z-axis	20 cm	—	—
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1347 — Intrusion Number 05	05	Intrusion #5	more
V1348 — Intrusion 05 Occupant Space Number	13	First row, Right seat	more
V1349 — Intrusion 05 Intruding Object	25	Other	more
V1350 — Intrusion 05 Assoc Event Number	1	Event #1	more
V1351 — Intrusion 05 Max Intrusion X-axis	14 cm	—	—
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more
V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	more
V1360 — Intrusion 06 Intruding	00	No Intrusion, None	more

Object			
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	more
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	more
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	more

V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	more
V1391 — Intrusion Number 09	00	No Intrusion, None	more
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	more
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	more
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	more
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion	00 cm		

Y-axis		0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	more
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01 Component	88	Not Applicable	more
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

**Case Vehicle
Airbag(s)**



[Click for Driver airbag figure](#)



[Click for Passenger airbag figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	0	No	more
V1509 — Passenger Airbag Tether	1	Yes	more
V1510 — Passenger Airbag Marked By Contact	0	No	more

**Case Vehicle
Interior**

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Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	0	No	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	0	No	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
V1607 — Left Front Glass Damaged	0	No	more
V1608 — Right Front Glass Damaged	0	No	more
V1609 — Left Rear Door Area Damaged	0	No	more

V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	0	No	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	1	Yes	more
V1619 — Left B-pillar Damaged	0	No	more
V1620 — Right B-pillar Damaged	0	No	more
V1621 — Left C-pillar Damaged	0	No	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	0	No	more
V1624 — Right D-pillar Damaged	0	No	more
V1625 — Left Headlining Damaged	4	Yes, occupant contact	more
V1626 — Right Headlining Damaged	4	Yes, occupant contact	more
V1627 — Left Roof Structure Damaged	1	Yes	more
V1628 — Right Roof Structure Damaged	1	Yes	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damaged	8	Not applicable	more
V1632 — Other Right Side Item Damaged	8	Not applicable	more
V1633 — Foot Controls Damaged	0	No	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	0	No	more
V1636 — Sunvisor/Fitting Damaged	0	No	more
V1637 — Windshield Molding Damaged	1	Yes	more
V1638 — Left A-pillar Damaged	0	No	more

V1639 — Right A-pillar Damaged	1	Yes	more
V1640 — Center Console Damaged	0	No	more
V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damagd	0	No	more
V1643 — Upper Panel Damaged	0	No	more
V1644 — Mid Panel Damaged	0	No	more
V1645 — Lower Panel Damaged	0	No	more
V1646 — Ashtray Damaged	0	No	more
V1647 — Control Knob/Lever Damaged	0	No	more
V1648 — Glove Compartment Area Damaged	1	Yes	more
V1649 — Instruments Damaged	0	No	more
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	0	No	more
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	0	No	more
V1655 — Other Item Damaged	8	Not applicable	more
V1656 — Rear Window Damaged	0	No	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	0	No	more
V1659 — Roof Console Damaged	8	Not applicable	more

Case Vehicle Seats

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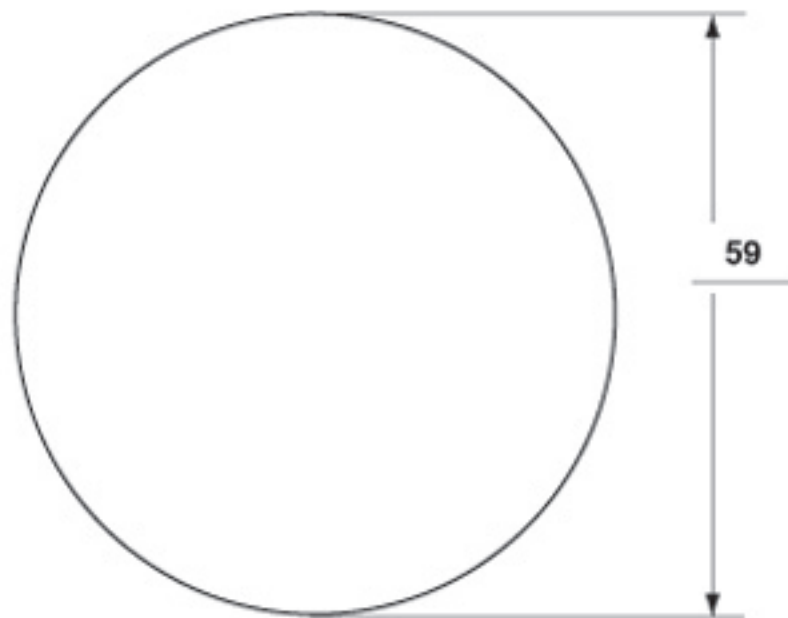
Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more
V1703 — Driver Seat Mount Type	1	Standard	more
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel Mechanism	0		

Equipped		No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	0	None	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	0	None apparent	more
V1715 — Passenger Seat Rotation	0	None apparent	more
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more
V1721 — Passenger Seat-back Lock Held	1	Yes	more
V1722 — Driver Recliner Mechanism Held	1	Yes	more
V1723 — Passenger Recliner Mechanism Held	1	Yes	more
V1724 — Driver Head Restraint Type	1	Adjustable	more
V1725 — Passenger Head Restraint Type	1	Adjustable	more
V1726 — Driver Head Rest Removed	0	No	more
V1727 — Passenger Head Rest Removed	0	No	more
V1728 — Driver Head Rest Adjustment	2	Down	more
V1729 — Passenger Head Rest	1	Up	more

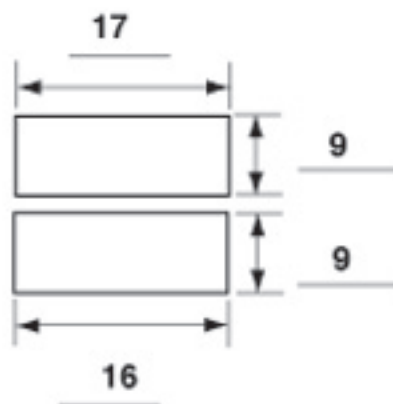
Adjustment			
V1730 — Driver Head Rest Damage	0	None	more
V1731 — Passenger Head Rest Damage	0	None	more
V1732 — Driver Seat Adjustment Type	2	Power	more
V1733 — Passenger Seat Adjustment Type	1	Manual	more
V1734 — Driver Seat Adjustment Provided	3	6-way	more
V1735 — Passenger Seat Adjustment Provided	1	2-way	more
V1736 — Driver Seat Adjuster Damage	0	None	more
V1737 — Passenger Seat Adjuster Damage	0	None	more
V1738 — Driver Seat Adjuster Separation	8	Not applicable	more
V1739 — Passenger Seat Adjuster Separation	8	Not applicable	more
V1740 — Driver Seat Pre-crash Position	3	Rearward	more
V1741 — Passenger Seat Pre-crash Position	3	Rearward	more
V1742 — Left Rear Seat Type	6	Luggage area access panel	more
V1743 — Right Rear Seat Type	6	Luggage area access panel	more
V1744 — Left Rear Seat Damaged	0	None	more
V1745 — Right Rear Seat Damaged	0	None	more
V1746 — Center Rear Armrest Damaged	0	No	more
V1747 — Left Rear Seat-back Left Lock Equipped	1	Yes	more
V1748 — Right Rear Seat-back Left Lock Equipped	0	No	more
V1749 — Left Rear Seat-back Left Lock Held	1	Yes	more
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	more
V1751 — Left Rear Seat-back Right Lock Equipped	0	No	more
V1752 — Right Rear Seat-back Right Lock Equipped	1	Yes	more

V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	more
V1754 — Right Rear Seat-back Right Lock Held	1	Yes	more
V1755 — Left 3rd Seat Equipped	0	No	more
V1756 — Right 3rd Seat Equipped	0	No	more
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	more
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	more
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	more
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	more
V1761 — Rear Head Restraints	0	Not Equipped (or removed)	more

Driver Airbag



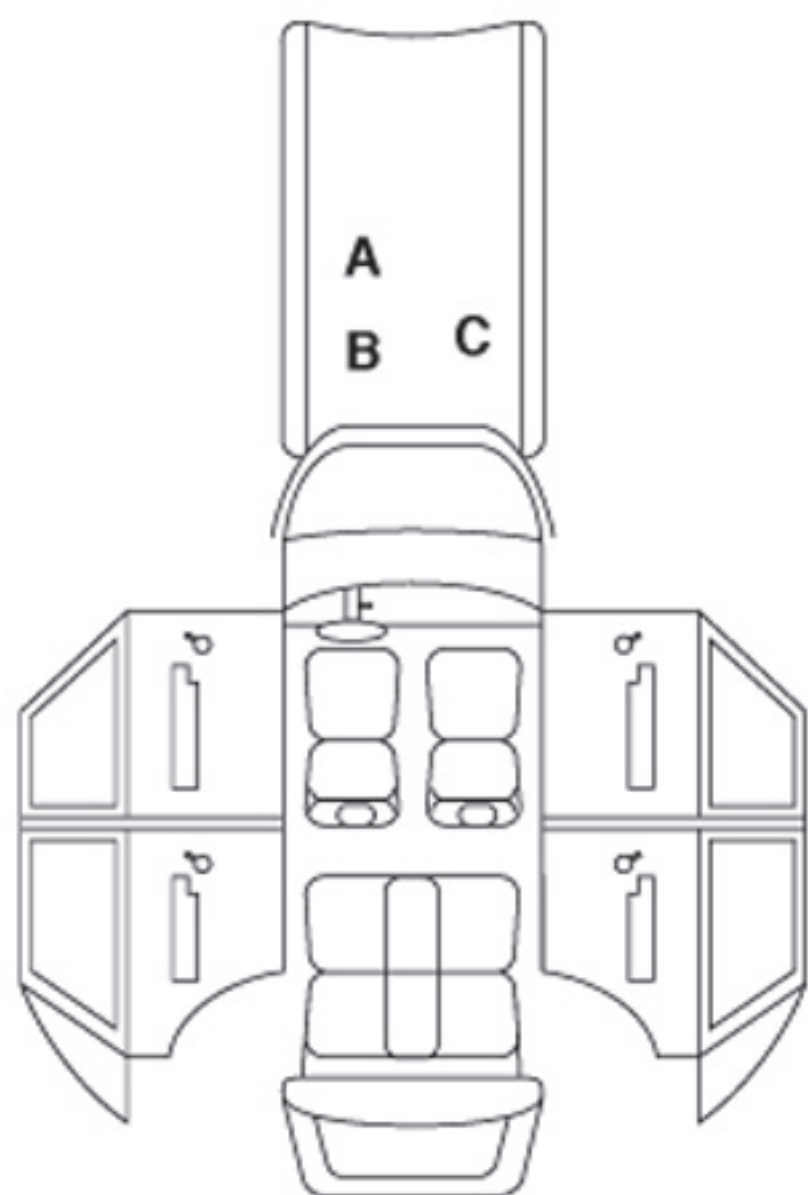
Driver Airbag Doors



Vents: ☒ Y ☐ N
if yes, how many: 2

at 1 and 11 o'clock

Tethers: ☒ Y ☐ N
if yes, how many: 2



A = Roof, Blood and hair deposit

B = Roof, Blood and hair deposit

C = Roof, Blood and hair deposit

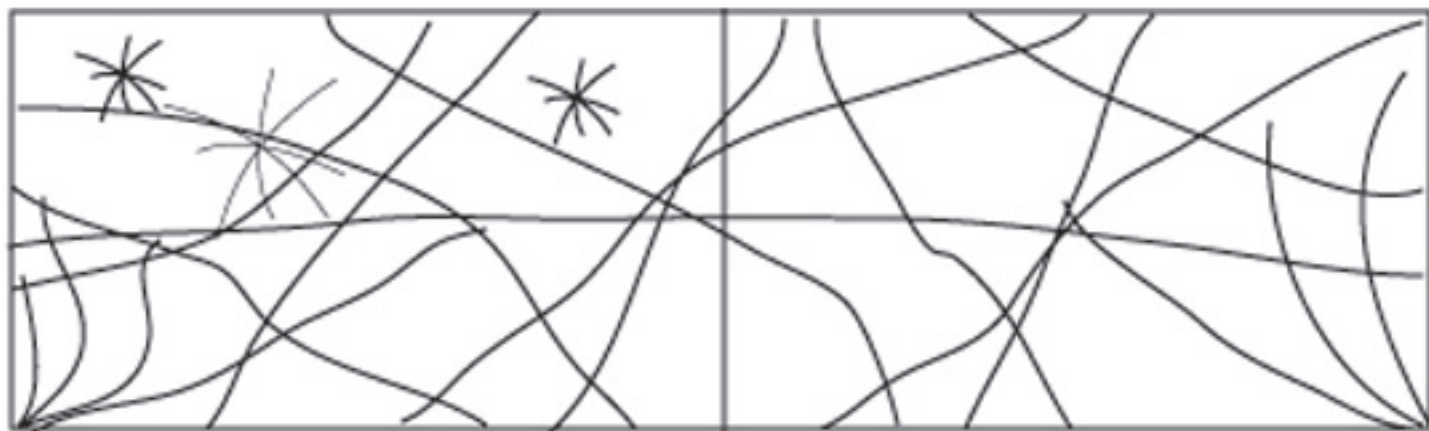
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
11	Roof	95	–	78	=	17	down
11	Windshield header	93	–	78	=	15	down
13	Roof	66	–	44	=	22	down
13	Windshield header	76	–	56	=	20	down
13	Heater core	98	–	84	=	14	rear
13	Windshield header	58	–	54	=	4	rear
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		
			–		=		

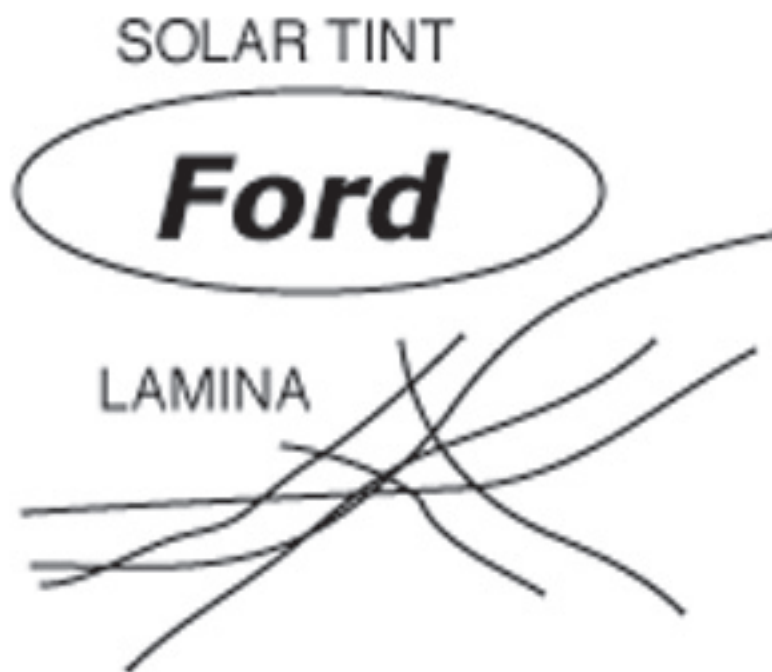
OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Roof	DR	Head	Blood stain and hair deposit	1
B	Roof	DR	Head	Blood stain and hair deposit	1
C	Roof	DR	Head	Blood stain and hair deposit	1
D					
E					
F					
G					
H					
I					
J					
K					

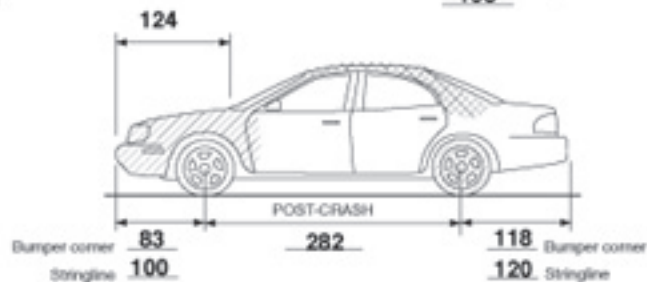
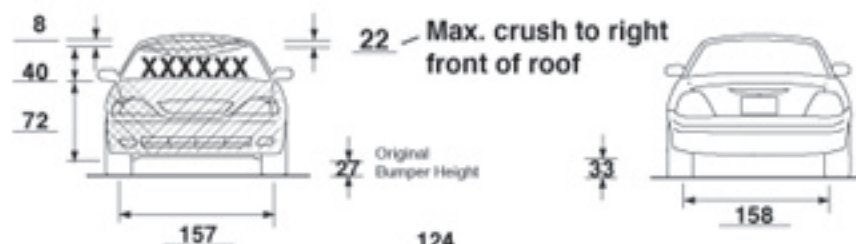


Windshield cracked through out due to roof crush and deformation of both A-pillars

WINDSHIELD MARK ON CASE VEHICLE:



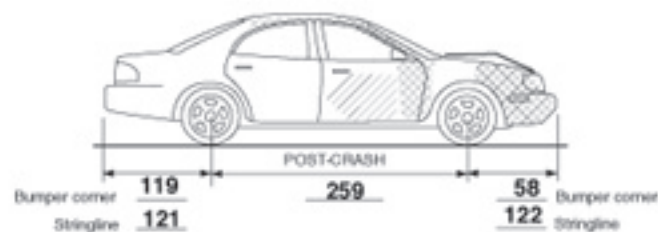
MEASUREMENTS IN CENTIMETERS



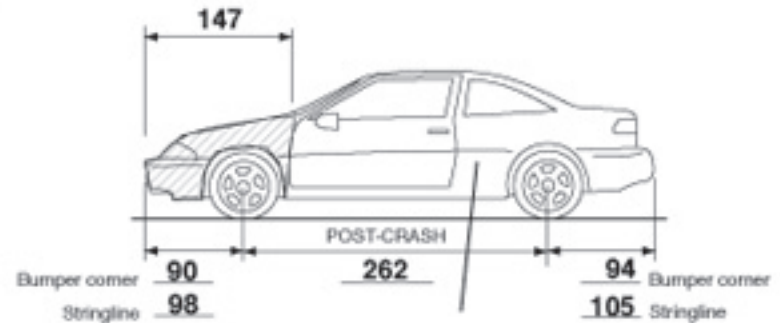
Max. crush to right-front bumper corner — 50



Width of direct damage to front



MEASUREMENTS IN CENTIMETERS



Trim panel knocked off

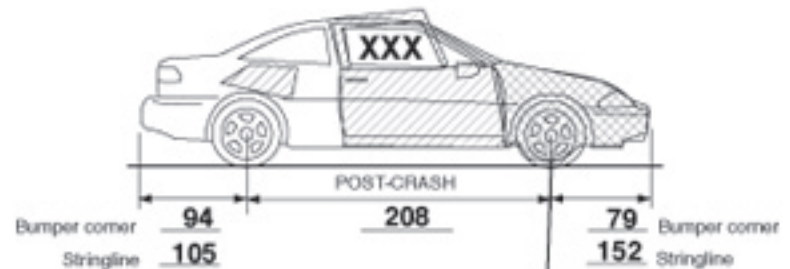
Max. crush to right-front bumper corner

63



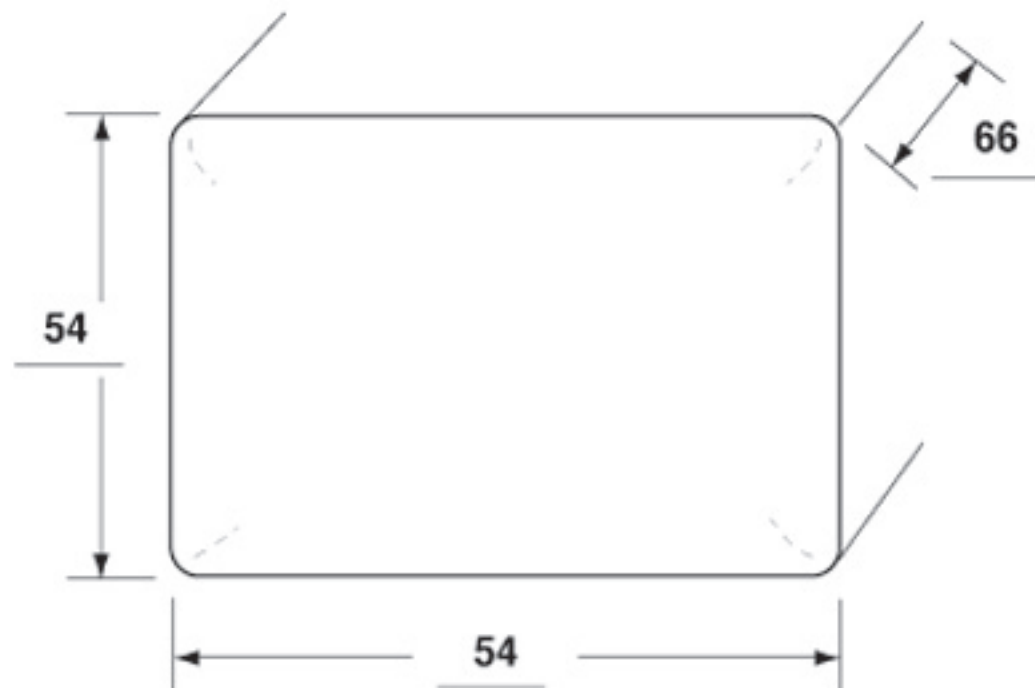
39

Width of direct damage to front



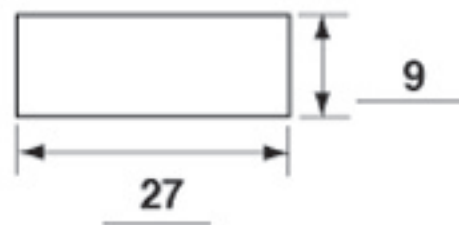
Left-front tire flat and it's movement restricted

Passenger Airbag



Passenger Airbag Doors

Single Door



Vents: ☒ Y ☐ N
if yes, how many: 2

Tethers: ☒ Y ☐ N
if yes, how many: 2

















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